

MULTI-FUNCTION SOLID-STATE SWITCH

ABSTRACT

A dual solid state switch architecture has a plurality of control/monitor ports, selected ones of which are used to control the operation of a pair of power MOSFETs current flow paths through which are coupled to prescribed ones of a plurality of input/output ports that are adapted to be coupled to a circuit path containing a load and either an AC or DC power source therefor. Selected others of the control/monitor ports are used to monitor current delivered to the load. A leakage current by-pass resistor is connected between selected input/output ports, to which a neon tube may be connected for indicating the switching on of an AC source. This resistor serves to provide a bypass path for leakage current through the MOSFETs, so as to prevent the neon tube from being erroneously illuminated, when the MOSFETs have been turned off.